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PATENT ABSTRACTS OF JAPAN

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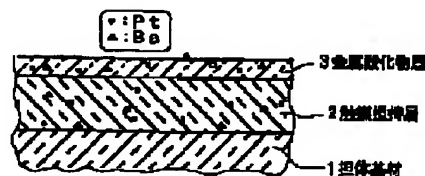
(54) **CATALYST FOR CLEANING EXHAUST GAS AND
 METHOD FOR CLEANING EXHAUST GAS**

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(57) Abstract:

PROBLEM TO BE SOLVED: To enhance the cleaning rate of NO_x after the life of an occlusion reduction-type exhaust gas cleaning catalyst beyond the current level of the rate by further inhibiting the sulfur poisoning of the catalyst.

SOLUTION: On the surface of a catalyst carrying layer 2, a metallic oxide layer 3 comprising at least one kind of metallic oxide selected from a transition metal and a rare earth element and a noble metal carried by the metallic oxide. SO_x is hardly adsorbable in the metallic oxide layer 3 and oxygen present in the interface between the metallic oxide and the noble metal is removed through a reduction reaction. It is considered that the interface part acts as an activation point for the reduction reaction of NO_x. Thus the NO_x cleaning power of the catalyst is upgraded.



● TiO ₂ SO ₂ =20	○ TiO ₂ SO ₂ =0	□ CuO ₂ SO ₂ =40	■ Fe ₂ O ₃ SO ₂ =20
▲ Al ₂ O ₃ SO ₂ =20	△ Al ₂ O ₃ SO ₂ =0	● Ni ₂ O ₃ SO ₂ =80	★ SnO ₂ SO ₂ =80
◆ ZrO ₂ SO ₂ =20	◇ ZrO ₂ SO ₂ =0	○ BaO ₂ SO ₂ =80	★ PrO ₃ SO ₂ =30